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ments being known, for the complete characterization of the form. Thus the table of angles is vastly simplified, and reference to it for any newly measured form is easy.

The present table contains, besides these two characteristic angles, ϕ and ρ , for each form, several supplementary angles which facilitate the comparison of measurements made by the two methods, and also several linear values of use in plotting the gnomonic projection of the forms.

An introduction contains necessary explanations of the values given in the tables and the schemes employed for each system for calculating the various values from the elements and symbol of the form. The total number of values tabulated is something over 70,000, of which nearly one-half required separate calculation, the remainder being such fixed values as 60 or 45 degrees. A summary of the number of minerals crystallizing in each system and of their forms is interesting. There are in

Isometric	System, 102 minerals with	719 simple forms.				
Tetragonal	" 47	" "	589	" "		
Hexagonal	" 91	" "	1457	" "		
Orthorhombic	" 170	" "	2783	" "		
Monoclinic	" 122	" "	2157	" "		
Triclinic	" 21	" "	404	" "		
Total	553	" "	8109	" "		

The publication of these tables removes one of the frequently urged objections to Goldschmidt's instrument and method of calculation, — that it had no connection with the great mass of observations hitherto made and gave results which could not be directly used and compared with those of other observers. The contrary is now true, for this work brings together in simple form an enormous mass of results previously not nearly so accessible. It is a logical conclusion to the elegant system of crystal measurement and discussion which the author has developed and should do much to extend the use of his time and labor-saving methods among students of crystallography.

Catalogue of Minerals. — Chester¹ has published a new edition, revised to date, of his list of minerals. It gives all the names in common use, stating of each whether it be a species or variety name, or a synonym. The approximate chemical composition is given after each species. The list serves as a convenient check-list, its alphabetical arrangement increasing its usefulness in this way.

¹ Chester, A. H. *A Catalogue of Minerals*. New York, J. Wiley & Sons, 1897.